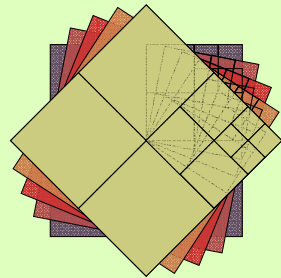Your bridge to the Open Source World

The Power of Collaborative, Clear thinking

Banyan
Information Management System

Munwar Shariff
CTO and VP of Business Development

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Agenda

- Self Introduction
- Introduction to Banyan
- Banyan as an Engineering Tool
- Banyan as an Assurance Manager
- Banyan as a Configuration Manager
- Banyan as a Strategic Planner
- DEMO

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Making Open Source Work

About me

- Plone Foundation Board Member
- Co-founder & CTO of CIGNEX
  - 40+ Employees
  - 50+ Zope, CMF and Plone Solutions
- Funded Plone Sprints & Conferences
  - PlonePAS, CMFMember Sprint
  - Castle Sprint in Austria
  - CMF 2.0 Goldegg Redzone Sprint
 - Packaging Sprint in Santa Clara, CA

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Goldegg

- Funded Goldegg One Initiative
- Funded 26 Developers from 17 Companies across 6 Countries
- Features helped
  - CMF 2.0
  - Plone 2.5

Plonelive

- ## Co-author of Plonelive
  - ### eBook by Sourcebeat
  - ### Amazon – print on demand
- ## Distributed 600+ Books for FREE to Plone community developers
- ## Plonelive 2.1.2 released on March 9th, 2006
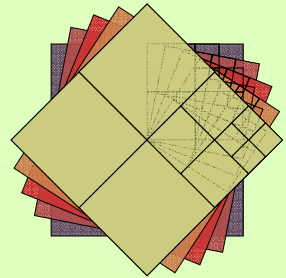
Introduction to Banyan

Introduction to Banyan

Banyan is a tool that helps people work collaboratively to solve complex problems

– Reduces project risk

– Increases project performance

Introduction to Banyan

Banyan is a tool that helps people work collaboratively to solve complex problems

– Reduces project risk

– Increases project performance

- Web-based
- Client/server architecture
- Runs on any modern operating system

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Introduction to Banyan

Banyan is a tool that helps people work collaboratively to solve complex problems

– Reduces project risk

– Increases project performance

- Multiple, concurrent users
- Three interaction models
    - Permissive
    - Informative
    - Restrictive
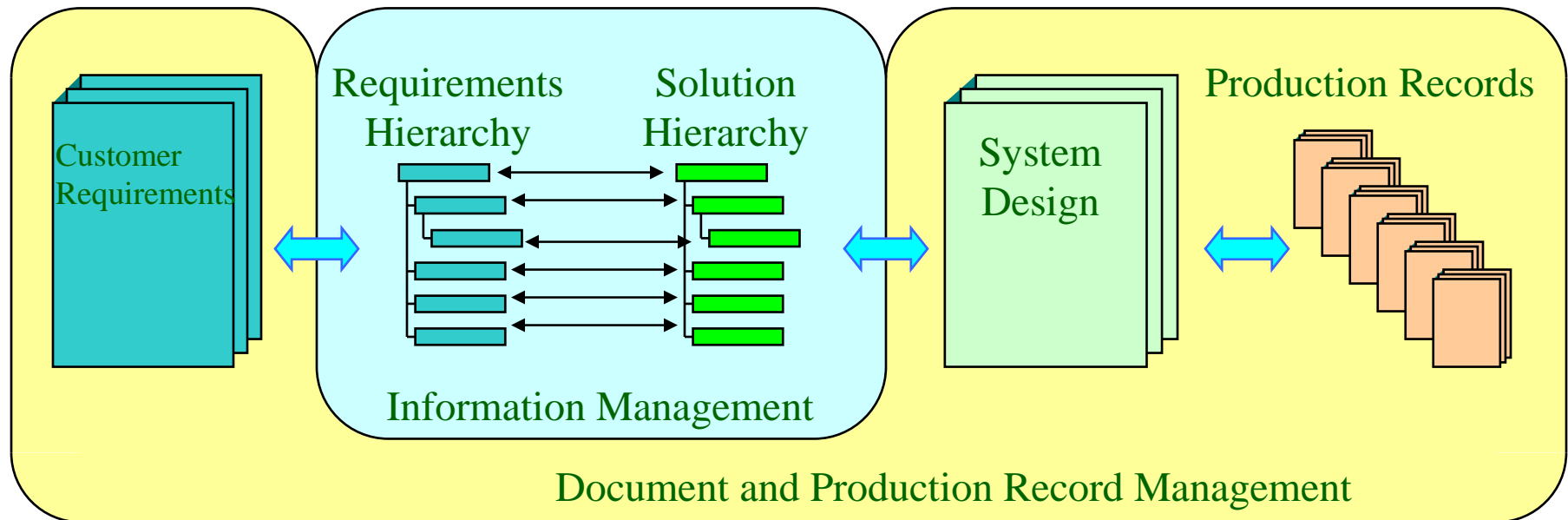
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Introduction to Banyan

Banyan is a tool that helps people work collaboratively to solve complex problems

- Reduces project risk

- Increases project performance

- Easily configured
- Being used for
    - Forward and reverse engineering
    - Compliance Management
    - Proposal writing
- Manages documents, information, and relationships

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Introduction to Banyan

Banyan is a tool that helps people work collaboratively to solve complex problems

– Reduces risk

– Increases performance

- Unambiguous traceability between
  - Customer requirements
  - Design elements
  - Tests, simulations, analyses that verify the design

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Introduction to Banyan

Banyan is a tool that helps people work collaboratively to solve complex problems

– Reduces project risk

– Increases project performance

- Transparency of design
- Supports
  - Requirements management
  - Configuration management
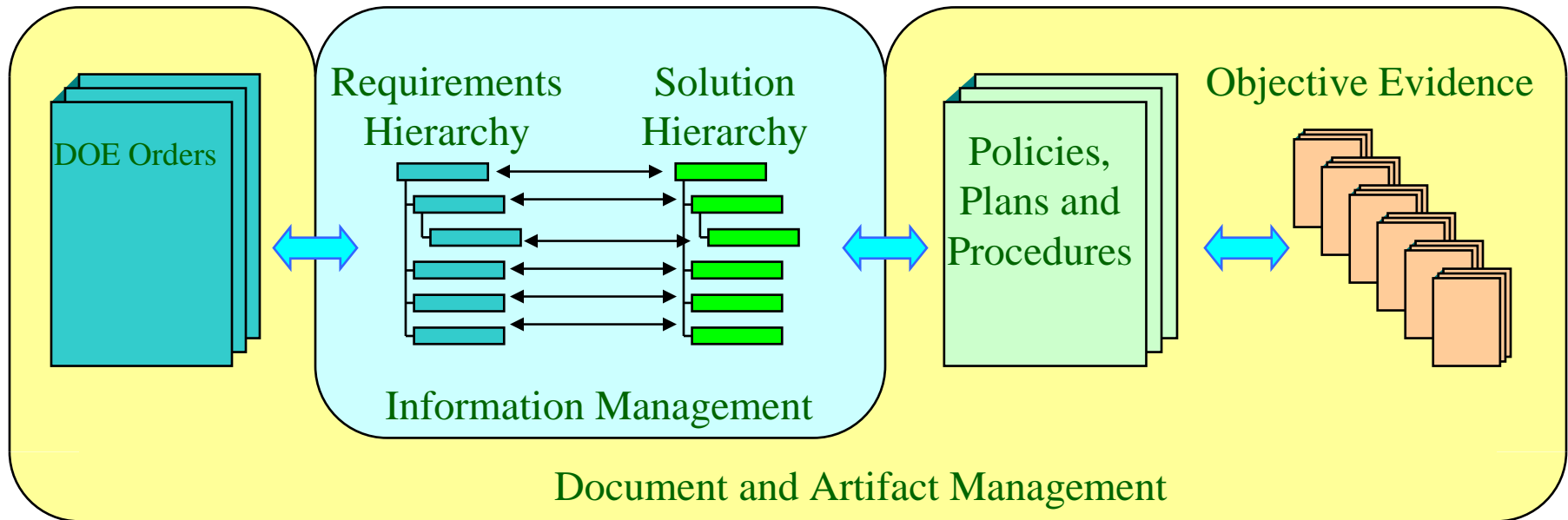 - Risk management
  - Project management

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Banyan as an Engineering Tool

Introduction to Banyan

Customer Requirements

Requirements Hierarchy

Solution Hierarchy

Information Management

System Design

Production Records

Document and Production Record Management

Unambiguous traceability

Banyan as an Assurance Manager

Introduction to Banyan

DOE Orders

Requirements Hierarchy

Solution Hierarchy

Objective Evidence

Policies, Plans and Procedures

Information Management

Document and Artifact Management

Audit-proof Compliance

Banyan as a Configuration Manager

Introduction to Banyan
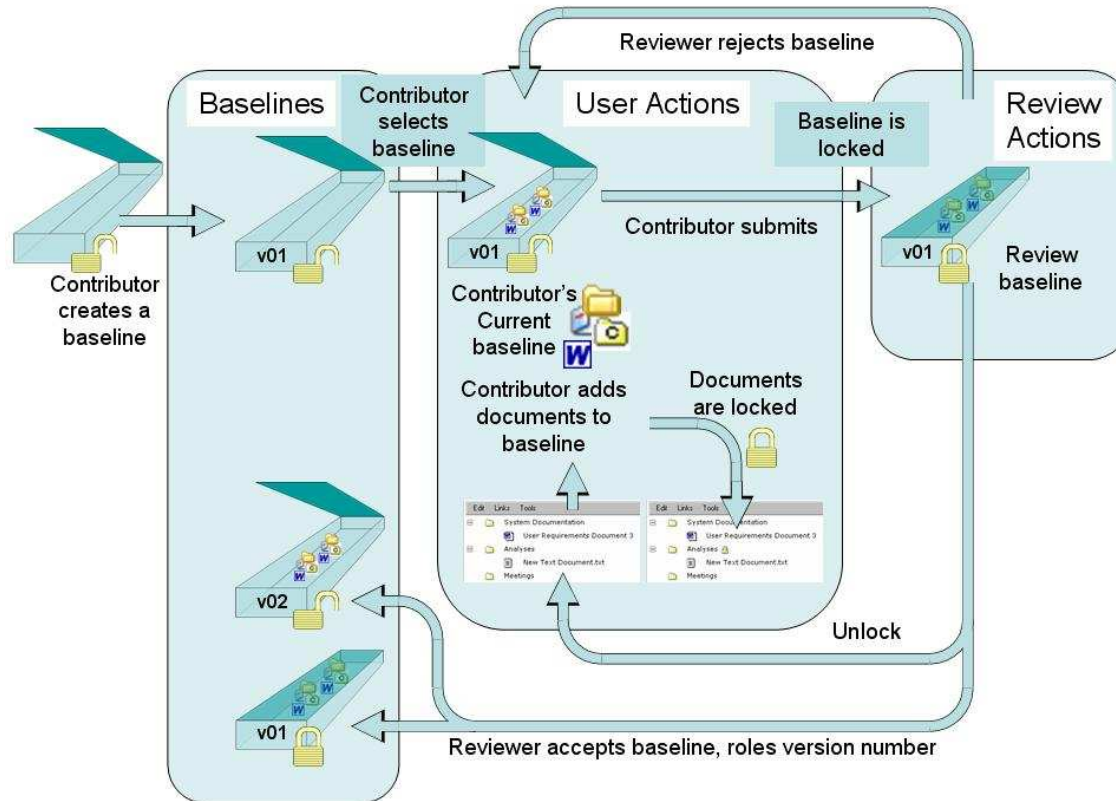
Better Control over Content and Process

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Banyan as a Strategic Planner
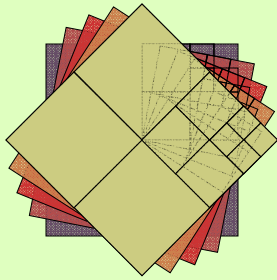
Introduction to Banyan

Collaborative, Clear thinking

Banyan is easy to use

Introduction to Banyan

- If you can use a web browser,

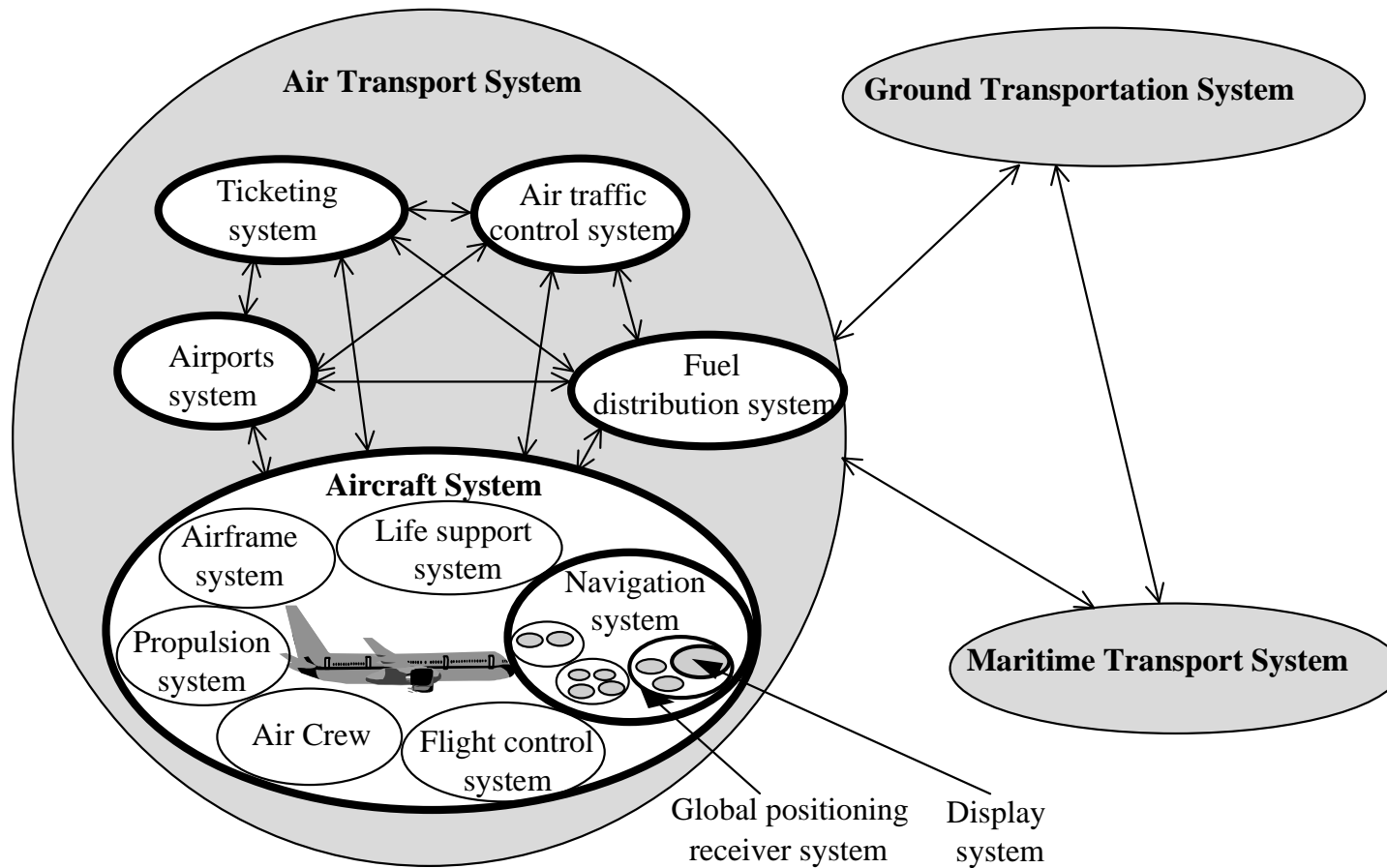- If you can use a file browser,

- Then you can use Banyan

Banyan as an Engineering Tool

Demo: Engineer a Transportation System

Banyan as an Engineering Tool

Demo: Set up

- Server and browser running on this laptop
- Already set up
  - Setup.exe installation program
  - Manual launch of server and browser
- Pre-configured as Engineering Tool
  - **Functions**
  - Performance **Requirements**
    - **Risks**
  - **Answers**
  - **Tests**   **Comments** anywhere
  - **Documents**

Demo: Engineering Section

Banyan as an Engineering Tool

Demo: Accounts

Banyan as an Engineering Tool

- ## System Administrator
  - Installs, Maintains Site
- ## Configurator
  - Defines and Sets up Process
- ## Contributor
  - User of the System: Read, Write, Reports
- ## Reader
  - Read Only Access to System
- ## Metadata Editor
  - Metadata values for Doc Storage for archival

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Demo: Banyan Instance Configuration

Banyan as an Engineering Tool

- Login as Configurator
- Click on "Configuration" Link
  - Site Settings
  - Document Metadata
  - Folder Metadata
  - Risk Matrix
  - Engineering Section

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Demo: Browse Engineering Section

Banyan as an Engineering Tool

- Click on "Function->Transport Material.."
  - Right Click for MENU OPTIONS

- Click on "Requirements->Pickup 1 to 20 People…" - Risk Matrix

- Right Click->Add->Information
  - Select (drop down) Information Type

- Right Click->Tools->Parse Document
  - Reverse Engineering

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Demo: Browse Document Storage Area

Banyan as an Engineering Tool

- Browse MENU Items

- Add->Collections (Content Logically grouped and Not editable)

- Subscribe->Add (For Notifications)

- Tools->Lock/Unlock/Request Document

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Demo: Engineering Section Reports

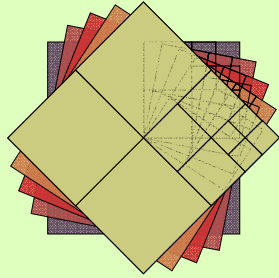*Banyan as an Engineering Tool*

- Engineering Section Report in XML format

- Mindmap of Engineering and Documents Section

- Engineering section Reports in HTML Format
  - Choose Information Types, Styles, Properties
  - Generate HTML Report (Full System Documentation)

Demo: Activity Reports

Banyan as an Engineering Tool

- Audit Trail

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Banyan as an Assurance Manager

Compliance Management
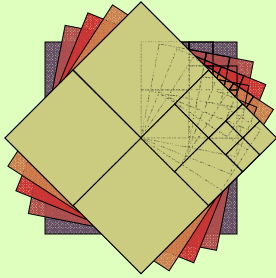
Banyan as an Assurance Manager

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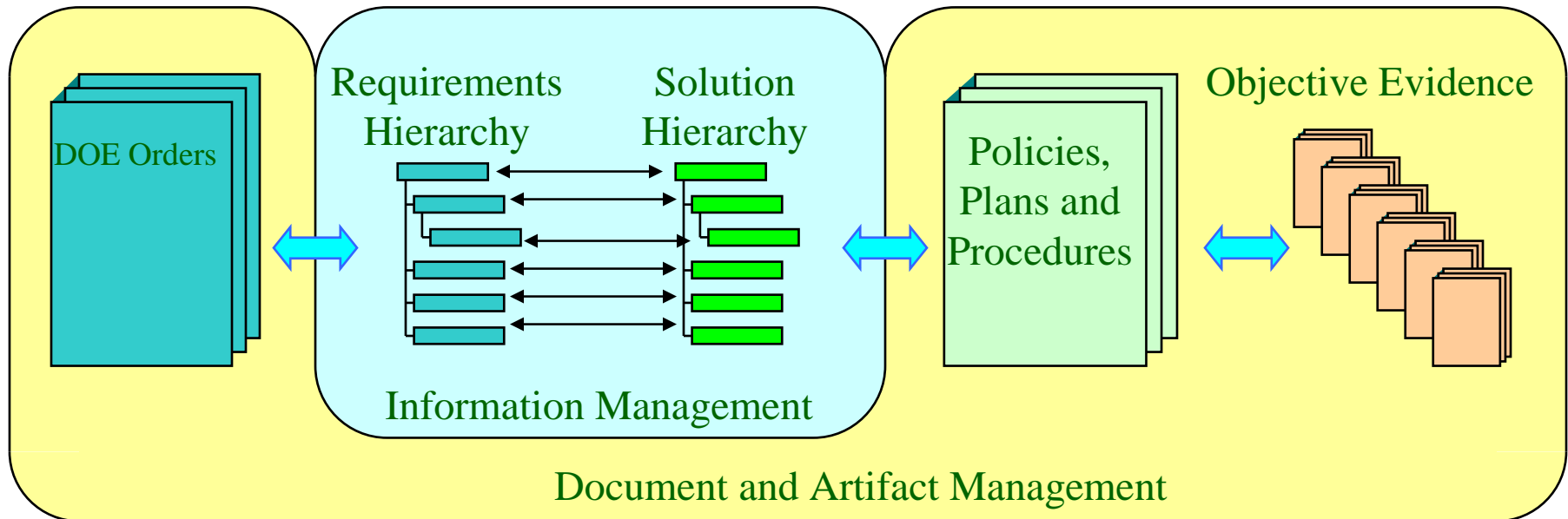
Demo: Compliance Elements

Banyan as an Assurance Manager

- Logon to Banyan Compliance management instance

- Engineering Section->Compliance Element->Training Program
  – Linked to *Requirement*
  – Linked to *objective evidence documents*

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Banyan as a Configuration Manager

Banyan Supports 4 Functions of CM

Banyan as a Configuration Manager

1. Configuration Identification
   - Information hierarchy in ES
2. Change Control
   - Banyan Version Control
3. Change Notification
   - Subscribe to changes
4. Audits
   - Link between elements and documents

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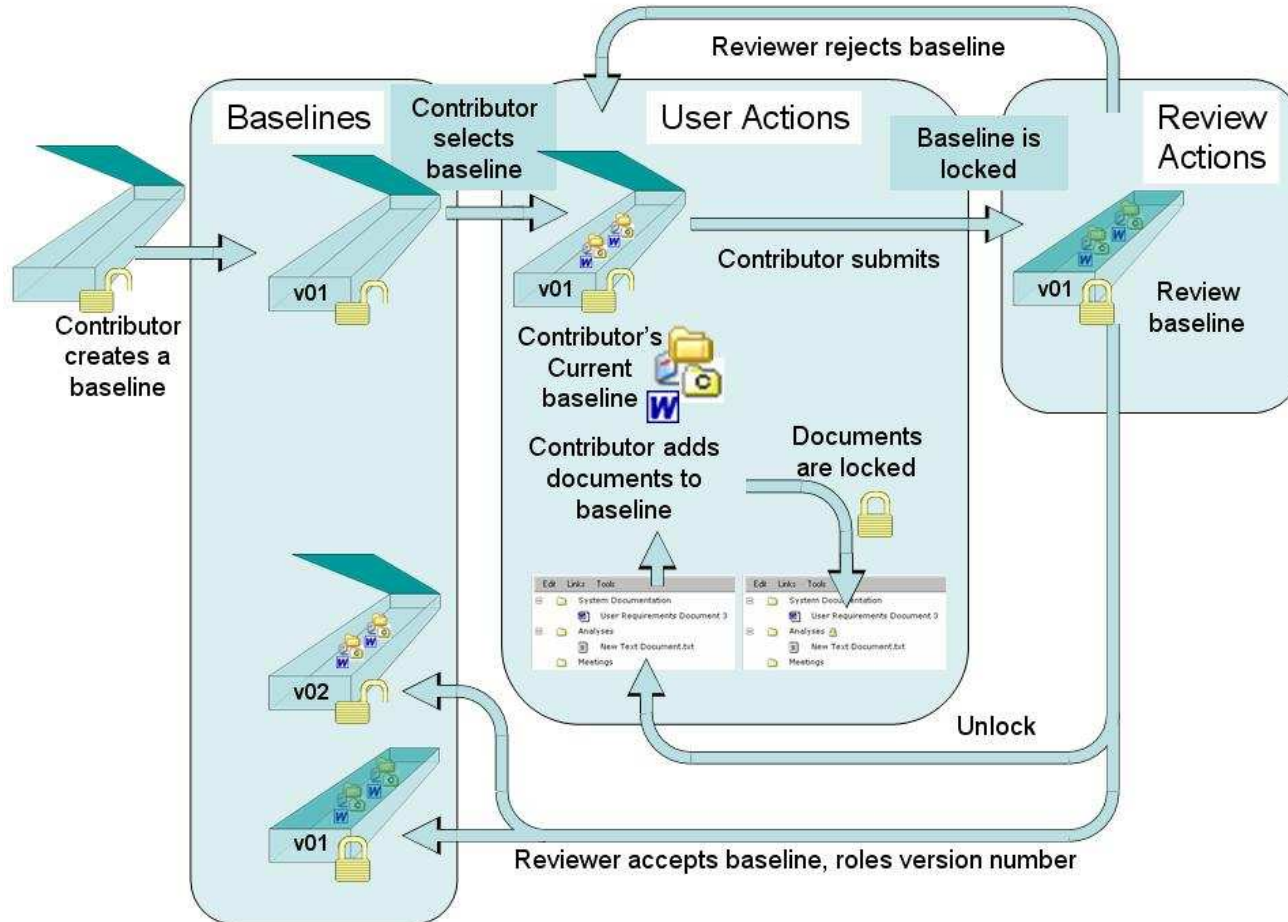
Baseline Workflow

- Version Control uses Workflow

- Uses "Lock Box" metaphor:
  - Open Baseline
  - Define Baseline
  - Close Baseline

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Baseline Security Permissions
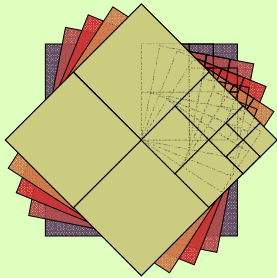
Banyan as a Configuration Manager

Demo: Configuration Managemet

Banyan as a Configuration Manager

- Login to Banyan IMS
- Version Control->Create, Select baseline
- Go to Engineering Section
  - Requirements Tab
  - Choose "around the globe…"
  - Link to baseline (Entire Tree is Locked)
- Reviewer accepts/rejects baseline

Banyan as a Strategic Planner

Strategic Planning

- Popular Management Technique
- Uses Hierarchical approach

Vision,
    Mission,
        Strategy,
            Goals,
                Objectives
                    Actions

Strategic Planning

Banyan as a Strategic Planner

- Organize information
- Define hierarchy
- Link to Corporate planning documents
- Define Risks involved

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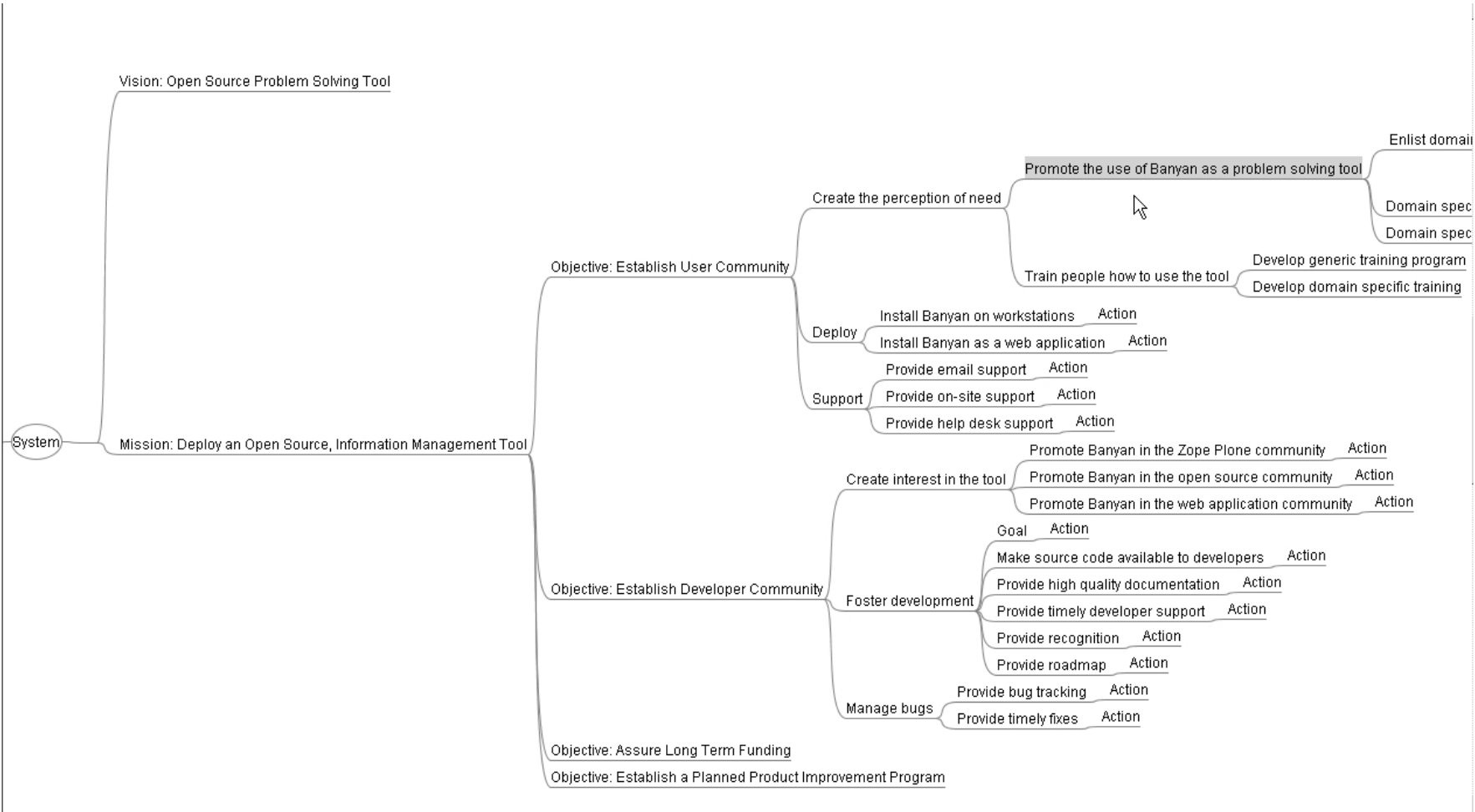Making Open Source Work

Demo: Strategic Planning

Banyan as a Strategic Planner

- Login to Banyan Strategic Planner Instance

- Click through Strategic Planning tree

- Read Description
    - "A: Enlist domain specific champions"

- You can define custom tabs

- Non-tabs: Risk, Questions

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Demo: Mind map

Banyan as a Strategic Planner

Banyan is Open Sourced

Banyan is Open Sourced

Banyan is Open Sourced

- Sourceforge Project - banyanims

   https://sourceforge.net/projects/banyanims

- Windows Installer

- User Manual

- Installation Guide

- Use Cases

- Roadmap

Banyan 2.2.02 Version, uses

Banyan is Open Sourced

- Plone 2.0.5
- Archetypes 1.3.7
- ATSchemaEditor
- SecureMailHost
- PloneQueueCatalog
- ZPDojo (on plone.org)
- Selenium

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AJAX Dojo Toolkit

Banyan is Open Sourced

- ## Why AJAX

  - Every update to element is re-drawing the entire tree

  - Element operations (copy/paste/link etc) are dynamic and dependent on element properties

- ## Redesigned UI with Dojo

  - http://www.dojotoolkit.org

- ## Banyan Contributions

  - *DojoToolkit: Treewidget, custom icons to nodes*

  - *Plone.org: ZPDojo*

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Summary

- Banyan is
  - Easy to deploy
  - Ease to configure
  - Ease to use
- Highly Secure
- Very Flexible
- Extremely Powerful

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Would like to Contribute?

Banyan Information Manager

- Visit http://www.banyantrees.org
  - Documentation, Use Cases
  - Roadmap

- Use Banyan and provide feedback
  - Email info@banyantrees.org

- Contribute to the project on sourceforge

Questions

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munwar@cignex.com

http://www.cignex.com